MEMORANDUM

To: Kurt Triplett, City Manager

From: Scott Gonsar, P.E., Project Engineer
David Snider, P.E., Capital Projects Manager
Kathy Brown, Public Works Director

Date: May 9, 2019

Subject: CKC SURFACEWATER HEADWALL PROJECT (SDC-106001) AWARD CONTRACT

RECOMMENDATION:

City Council to:

- Award a construction contract for the CKC Surfacewater Drainage Crestwoods Park Project (Project) to Dungeness Construction Company of Langley, Washington, in the amount of $328,710.16.

By taking action during approval of the consent calendar, City Council is awarding the construction contract for the Project.

BACKGROUND DISCUSSION:

Along the Cross Kirkland Corridor, near Crestwoods Park, there exists a streambed culvert and wooden headwall constructed out of old railroad bed ties (treated wooden timbers). It is estimated that the structure was constructed in the early-1900s by railroad maintenance workers as protection for the rail line roadbed. The timbers are currently held in place by metal fence posts staked in the ground acting as support for an existing 24”-diameter reinforced concrete culvert conveying the stream. Over many decades, erosion around the culvert has resulted in an elevated pipe outfall that has cut or incised the stream channel. Leaving this situation unaddressed could result in the failure of both the 24”-diameter culvert and a portion of the CKC trail where the culvert crosses underneath (see Attachment A, "Vicinity Map").

The Project consists of installing a concrete block headwall, a manhole drop-in structure, and stream channel restoration. As designed, the improvements will prevent further stream erosion by providing for a dissipation of the energy produced by stream flows at high stream flow events.

During construction, equipment will be staged at designated areas at the dead end of 111th Avenue N.E. and on the CKC itself. Once the headwall placement is completed, the contractor will access the King County Wastewater Treatment Division property from Forbes Creek Drive as an area used to stage equipment and materials. The heavy equipment use
on the Project is estimated to take 25 working days to complete and, during that time, there
will be a need to close a portion of the CKC for 10 working days. As identified in the design
contract documents, the contractor is required to establish a detour route (see Attachment

**Bid Results**

With an engineer’s estimate was $280,500, the Project was first advertised on March 27 and
on April 3, 2019 the City received three bids. With a bid total of $328,710.16, Dungeness
Construction Company has been deemed the lowest responsible bidder, based upon the bid
amount and all required paperwork received (see Table 1, below).

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Amount</th>
</tr>
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<tbody>
<tr>
<td>Engineer’s Estimate</td>
<td>$280,500.00</td>
</tr>
<tr>
<td>Dungeness Const Co.</td>
<td>$328,710.16</td>
</tr>
<tr>
<td>McClure Construction Company</td>
<td>$356,172.40</td>
</tr>
<tr>
<td>Road Construction Northwest, Inc</td>
<td>$370,203.54</td>
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</table>

**Funding and Expenses**

The overall approved Project funding is $690,000, which includes funding for a now-
complete preliminary report to more closely examine the existing situation and to establish
an appropriate and cost-effective solution. The sum of all project expenses is currently
estimated to be $690,000 including the City’s project elements and an appropriate
contingency for the type and level of access difficulty represented by the physical work (see
Table 2, below, and Attachment C, “Project Budget Report”).

<table>
<thead>
<tr>
<th>Funding</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Surface Water Utility Funds</td>
<td>$540,000</td>
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<tr>
<td>King County Flood Control Grant Funding</td>
<td>$150,000</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$690,000</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Anticipated Expenses</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>$185,000</td>
</tr>
<tr>
<td>Inspection/Geotechnical Testing</td>
<td>$50,000</td>
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<tr>
<td>Staff/Admin</td>
<td>$62,000</td>
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<tr>
<td>Construction</td>
<td>$328,710</td>
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<tr>
<td>Contingency</td>
<td>$64,290</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$690,000</strong></td>
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</tbody>
</table>

**Schedule**

With a City Council contract award at the May 21st meeting, the contractor will begin work in
summer with a requirement of completing all in-water work and surface restoration in
September. Landscape plantings will follow and be finished in November 2019. The CKC
trail closure, from Cotton Hill Park to 111th Avenue N.E. trail access, is anticipated to be 10
working days with notification signage and other advance warnings being made public at
least one-week in advance of the closure. The actual CKC closure days will be determined
through routine scheduling conversations between the Project Management Team and the
contractor once the contract has been fully executed and a pre-construction conference is
scheduled.

Attachment A: Vicinity Map
Attachment B: CKC Trail Closure Temporary Routing
Attachment C: Project Budget Report
Attachment A

Vicinity Map

CKC Stormwater Drainage Headwall Repair